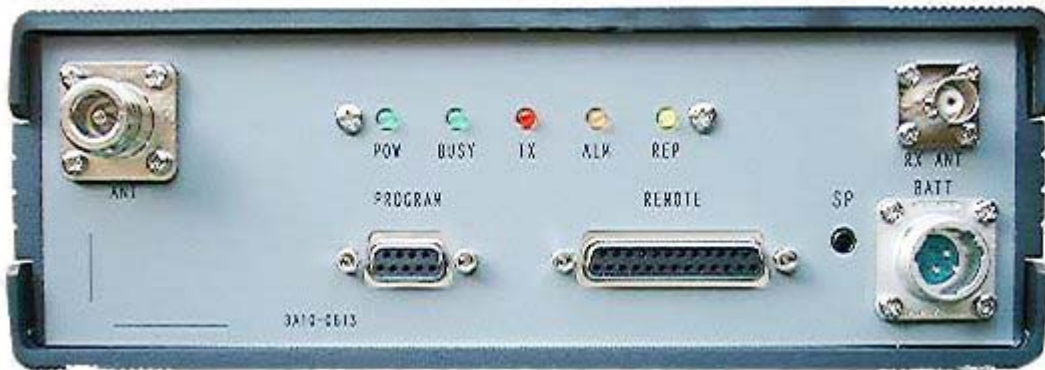


KG 506 series

VHF/U Full Duplex Mobile Radio



Traditional Excellence

KYODO has been building Land Mobile Radios for 60 years. During that time, our products have earned a worldwide reputation for reliability and performance. Our traditional commitment to advancing technology, innovative design and the latest Surface Mount Techniques provides the highest level of quality and ultimate versatility. The KG506 has evolved from these traditions and offers features that customers can use well into the future. The KG506 will work for you, day-in-day-out for years and years.

TRADITIONAL KYODO EXCELLENCE

FEATURES

- Two frequency duplex operation
- EEPROM programmable with a PC computer
- All FM frequency bands from 30 to 520 MHz
- Transmit time limiter to prevent channel jamming
- Two channel scanning modes
- 22, 26, or 35 MHz switching bandwidth (model dependant)
- Up to 64channels with channel labels
- Two-stage front end allows mixed simple and duplex operation
- Channel selectable wide or narrow channel spacing
- CTCSS/DCS on a per channel basis & decoder
- Step-up VCO voltage for superior selectivity dependant)
- Watch dog timer

SPECIFICATIONS

KG506 Full Duplex Mobile Radio

GENERAL					
Frequency Range	30 MHz Band	80 MHz Band	VHF Band	200 MHz Band	UHF Band
KG506-xxx	Designated 03	Designated 08	Designated 15	Designated 20	Designated 40
Band Splits	A: 29.5 - 35 MHz B: 35 - 42 MHz C: 42 - 50 MHz* * Special Order	A: 66 - 78 MHz B: 74 - 88 MHz	A: 136-156 MHz B: 150-174 MHz	A: 176-204MHz B: 200-230 MHz C: 225-255 MHz D: 250-280 MHz	SA: 300-335 MHz A: 335-370 MHz B: 365-400 MHz C: 400-435 MHz DS:420-455 MHz D:440-475 MHz E:465-500 MHz F:485-520 MHz
Number of Channels	64 channels				
Channel Spacing	12.5, 20, 25, 30 kHz programmable				
Mode of Operation	Full Duplex				
Antenna Impedance	50 Ohms unbalanced				
Power Supply	13.6 V DC negative ground, regulated, 5A				
Environmental Conditions	TX: 6 A @ 25 W RX: 340 mA standby, 370mA receive-mid volume, 525 mA receive-max volume				
Dimensions	223 mm (8.8") wide, 76 mm (2.99") high, 345 mm (13.6") deep				
Weight	5.5 kg (12.1 lb)				
Construction	Die cast aluminum chassis and top cover bottom cover				
Color	Panel, light gray, Chassis dark gray				
Rear Panel	spkr./headphone jack, Program Connector, Remote Connector				
Display, LED	Power, Busy, TX, Alarm, Repeater				
Diagnostics	Receive signal strength, transmit power output, alarms for SWR, low PA power, PLL unlock EROM data error				
TRANSMITTER					
RF Power Output	25 W Continuous				
Max. Frequency Deviation	Wide band: +/- 5 kHz, Narrow band, +/- 2.5 kHz				
Frequency Stability	±0.0002%				
Frequency Response	Within +1, -3dB of 6 dB/octave pre-emphasis from 300 to 3000 Hz, 1 kHz ref.				
Signal to Noise Ratio	Wide band: more than 50dB at 1 kHz 70% modulation Narrow band: more than 45 dB at 1 kHz 70% modulation				
Modulation Distortion	Less than 3% at 1kHz 70% modulation				
Spurious and Harmonics	.25 μW or less				
RECEIVER					
Intermediate Frequency	1 st IF: 21.6, 30 MHz band, 48.5 MHz other bands 2 nd IF: 455 kHz				
Frequency Stability	±0.0002%				
Sensitivity	Less than 0.4 μV for 20 dB quieting, Less than 0.3μV for 12 dB SINAD				
Squelch Sensitivity	Less than 0.25 μV				
Selectivity	More than 70 dB at 25 kHz point				
Blocking	More than 90 dB				
Intermodulation	More than 70 dB				
Spurious Response	More than 70 dB				
AF Response	Within +1, -3 dB of 6 dB/octave de-emphasis from .3 to 3 kHz, 1 kHz Ref.				
AF Output	External Speaker: 5 W @ <5% distortion into 4 Ohms, 1 kHz				
Signal to Noise Ratio	Wide band, 25 kHz: more than 50 dB at 1 kHz 70% modulation Narrow band, 12.5 kHz: more than 45 dB at 1kHz 70% modulation				

NOTICE:



4-6-8 Osaki, Shinagawa-ku, Tokyo 141-0032, JAPAN
Phone: 813-3490-1631 Fax: 813-3490-1517